

#### Abstract of the invention

An electrode for fuel cell, such as electrode for solid polymer fuel cell, having three-phase interfaces arranged therein in an efficient fashion so as to exhibit enhanced fuel cell characteristics. In particular, an electrode for fuel cell comprising a porous electro-conductive material carrying a catalyst and, arranged on the surface, including pores, thereof or in its vicinity, a proton-conductive substance characterized in that the proton-conductive substance is one obtained by carrying out coupling or polymerization of a proton-conductive substance precursor, a proton-conductive monomer or an equivalent thereof on the surface or in the vicinity.